

ABSTRACT

An integrated magnetic field sensing device includes at least two  
magnetoresistive elements which are biased in a first direction by an integral conductor  
and are sensitive to magnetic field components in a direction perpendicular to the first  
5 direction. The sensitivity of the device to a magnetic field is adjustable and is related to  
the level of the bias current. In a current measuring application, two of the magnetic  
field sensing devices are mounted on opposite sides of and perpendicular to a conductor  
carrying a current to be measured. In a portable current measuring apparatus, two of the  
magnetic field sensors are mounted in a housing that assists in locating the magnetic  
10 field sensors relative to the conductor carrying the current to be measured.

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